

Command= 210-Point#, Start#-End# or G#= 1-100Distance Elev Descrip Pnt. Northing Easting Type --11:46:28------01-17-2025-----D:...\BMHOME9 5000.0000 5000.0000 50.00 1 setspk 48.17 2 4991.5302 5096.8102 TRA setnlrt 3 4921.9246 5015.2981 52.46 flagpole SS 52.80 4 4888.0444 5032.6880 rrspike SS 5 52.65 4877.4661 5019.0118 SS epepdr 52.42 6 4901.5710 5010.6180 SS epepdr 7 51.90 4918.3444 5009.7870 SS mailbox 55.44 8 4924.7173 5037.0369 SS stoop@dr 50.65 pole** 4960.3438 9 4956.1800 SS 50.77 h2ogat** 10 4935.2817 4948.0812 SS 51.28 11 4947.5329 4966.1296 SS epeprd 50.78 12 5031.6765 4940.6094 SS eр 13 50.84 5028.4117 4965.6596 SS epepdr 49.36 ер 14 5039.9682 4980.3440 SS 48.29 15 5058.7205 4990.2774 SS corhse 48.14 5056.7043 5037.0768 epdr 16 SS 46.58 5038.4078 5035.2474 17 SS low 48.07 18 5028.2383 5027.8765 SS sprcedlw 48.97 edglwn** 19 5019.7275 5011.6881 SS 48.65 @tree** 20 5018.5699 4996.2739 SS 49.14 tsedglwn 21 5012.6804 4990.4075 SS 47.42 22 5020.9405 4989.7602 SS bs 47.10 23 4990.1173 SS 5036.4127 bs 46.98 5090.7222 4977.8377 corhse 24 SS 47.69 25 4982.6407 bs 5027.7118 SS 51.06 26 4992.0140 4977.8348 SS ер 51.56 27 4985.9573 4989.5069 setnlpol SS 49.82 4993.1955 4997.5562 anchor 28 SS 49.67 low 29 4990.1808 4992.7933 SS 49.99 30 5001.8237 4991.9438 SS spruce 50.01 5008.3401 lawn 31 5013.4665 SS 32 5017.7460 49.46 5026.8806 lawn SS 48.34 33 5024.3323 5033.5195 edglawn SS 49.56 34 4997.8061 lawn 5033.1274 SS 50.09 35 5008.8703 5021.7616 SS high 48.40 corstone 36 4989.1268 5051.0754 SS 50.54 37 4981.1046 5015.2951 SS bs 50.55 38 5004.9214 pit 4975.8463 SS 50.13 39 4983.4721 5024.3023 SS bs 48.03 edglwn 40 5004.4232 5045.5658 SS 46.36 41 5036.1916 5043.6080 bs SS low 46.26 42 5039.0138 5063.9253 SS 46.77 low 43 5022.6081 5081.4609 SS 47.40 5006.5689 low 44 5088.3662 SS

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JOB #18 605moylan [100]				
Bearing Distance Elev Descri				
01-17-2025				
53.19 topta:				SS
53.52 corwd:				SS
53.60 corwoo				SS
53.42 corhse				SS
53.44 @hyd	51	4950.7301	5040.6430	SS
53.56 corhse		4940.5804		SS
53.52 @wist	53	4953.4992		SS
		4949.0320	5014.4252	SS
51.18 endhd	g* 55	4967.7392	5002.1145	SS
51.61 tsdra:	in 56	4970.1432		SS
53.37 sillw	ndw 57	4955.9727	5057.2387	SS
53.24 sillw	ndw 58	4960.8352	5073.6040	SS
50.47 os				SS
48.38 bdr5e	wds 60	4982.7197	5074.0135	SS
53.93 epdr4	.5 61	4904.4863	5089.7473	SS
54.12 cordke	ep 62	4925.3411	5090.4920	SS
52.37 corhse	e 63	4945.1602	5084.4853	SS
49.57 @door	64	4953.6211	5082.1918	SS
50.47 corhse	e** 65	4962.7848	5079.2783	SS
51.81 corsh	p 66	4940.8985	5094.5971	SS
49.26 corsh	p 67	4952.7091	5141.4513	SS
48.41 lawn	68	4966.1896	5110.6216	SS
53.33 fndip	69	4923.7923	5197.7840	SS
48.96 @oldfr		5013.2910	5174.6248	SS
51.91 bmchk	71	4978.4829	5039.4145	SS

Point#, Start#-End# or G#= 4-

BK3382PG1087

991690 249 Portsmouth Avenue Greenland, New Hampshire 03840 Scott P. Moylan and Elizabeth P. Mann

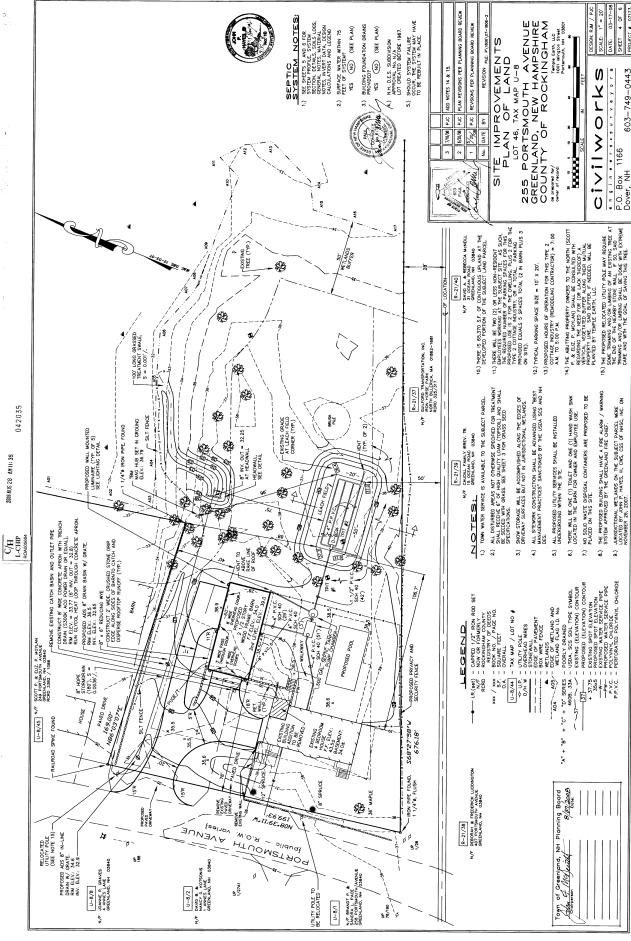
EXHIBIT A

A certain tract or parcel of land with the buildings and improvements thereon, situate in Greenland, County of Rockingham and State of New Hampshire, bounded and described as follows;

Beginning on the east side of the road leading from Greenland Parade to Portsmouth, known as State Route No. 101, at the northwest corner of land now or formerly of William F. Parrott; thence northerly by said road to land now or formerly of Mahitable Cate; thence easterly by land of said Cate, fifty (50) feet, more or less, to land of said Parrott; thence southerly by land of said Parrott about one hundred twenty-two (122) feet; thence southerly by land of said Parrott about ninety-five (95) feet; thence westerly by said Parrott land about one hundred sixty-one (161) feet to the point of beginning.

For mortgagors title see Deed dated October 29, 1982 and recorded in Book 2425, Page 1256

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MBLU: 0/U 8/ 45/ / /

Location: 249 PORTSMOUTH AVE

Owner Name: MOYLAN SCOTT P

Account Number: 875

Parcel Value

Item	Assessed Value
Buildings	185,100
Xtra Bldg Features	3,300
Outbuildings	20,700
Land	139,200
Total:	348,300

Owner of Record

MOYLAN SCOTT P MOYLAN ELIZABETH P

Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
MOYLAN SCOTT P	3382/1086	4/14/1999	1
MOYLAN SCOTT P	02425/1256	10/29/1982	36,500
PELLETIER ROBERT	02262/1154		27,500

Land Line Valuation

Size	Zone	Assessed Value
0.33 AC	RES	139.200

Construction Detail

Building # 1		
STYLE Antique	MODEL Residential	Grade: Average +10
Stories: 2 Stories	Occupancy 1	Exterior Wall 1 Clapboard
Roof Structure: Gable/Hip	Roof Cover Asph/F Gls/Cmp	Interior Wall 1 Drywall/Sheet
Interior Wall 2 Plastered	Interior FIr 1 Pine/Soft Wood	Interior Flr 2 Hardwood
Heat Fuel Oil	Heat Type: Hot Water	AC Type: None
Total Bedrooms: 04	Total Bthrms: 2	Total Half Baths: 1

Building Valuation

Total Rooms: 10

Living Area: 2,480 square feet Replacement Cost: 260,731 Year Built: 1838

Bath Style: Average

Depreciation: 29% **Building Value**: 185,100

1 of 2 8/12/2010 8:27 PM

Kitchen Style: Modern

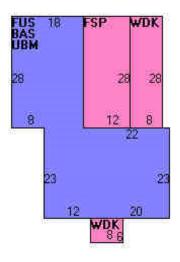
Extra Features

Code	Description	Units
FLU2	BRICK	1 UNITS
HTUB	HOT-TUB	1 UNITS

Outbuildings

Code	Description	Units
SHP1	WORK SHOP AVE	672 S.F.
SHP1	WORK SHOP AVE	384 S.F.
SHD1	SHED FRAME	35 S.F.

Building Sketch



Subarea Summary

Code	Description	Gross Area	Living Area
BAS	First Floor	1240	1240
FSP	Porch, Screened	336	0
FUS	Upper Story, Finished	1240	1240
UBM	Basement, Unfinished	1240	0
WDK	Deck, Wood	272	0

2 of 2



developing innovative solutions with sustainable results 2 Whitney Road – Suite 10 - Concord, NH 03301

Telephone: 603-783-8042 www.thecleansolution.com

Toll Free: (866) 900-2415

email: info@thecleansolution.com

November 18, 2010

Scott & Elizabeth Moylan 249 Portsmouth Avenue Greenland, NH 03840

Dear Scott & Elizabeth Moylan:

Thank you for choosing to use **THE CLEAN SOLUTION™** alternative septic system for your existing 4-bedroom single-family home located at 249 Portsmouth Avenue in Greenland, NH. Attached is a sales agreement for the system. This agreement describes what you are buying, the required maintenance, your warranty, the price and the terms of sale.

The following is enclosed:

- 1. A complete copy of the Sales Agreement and Inspection Contract for your records.
- Inspection Contract Return one signed copy to Anne Bialobrzeski of Stockton Services. Anne will send one signed copy to NHDES with your subsurface disposal plan submittal. NHDES needs this for their records to show that you are aware of the required maintenance.
- 3. Sales Agreement and Inspection Contract Please sign and return with the initial payment to WAI approximately three weeks prior to the system installation. Please provide WAI with the name and contact information of your installer. This information is needed to allow WAI to coordinate the installation date.

I look forward to working with you. Please give me a call if you would like to discuss the system or the sales agreement.

Sincerely,

Gary R. Spaulding General Manager



2 Whitney Road - Suite 10 - Concord, NH 03301

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Toll Free: (866) 900-2415 Fax (603) 369-4747 email: gary@thecleansolution.com

RESIDENTIAL SALES AGREEMENT November 18, 2010

BUYER:

Name: Scott & Elizabeth Moylan Address: 249 Portsmouth Avenue City, State Zip: Greenland, NH 03840

Phone: Cell: Email:

OWNER-IF DIFFERENT:

Name: Address: City, State Zip: Phone: Cell:

Email

SITE:

Property ID: Tax Map U8 Lot No. 45
Address: 249 Portsmouth Ave.
City, State, Zip: Greenland, NH

Waterbody: (name)

Property Type:

Residential Single Family: Yes Residential Seasonal: No

Wastewater Alternatives, Inc. (WAI) agrees to supply a Model **250ST-R4 CLEAN SOLUTION™** Sewage Treatment System to the buyer installed at the above site in accordance with the attached specifications and the subsurface disposal plan submitted for a **4-bedroom single family home** by **Stockton Services** as approved by NHDES. **THE CLEAN SOLUTION** system has been designed based on design parameters provided by the designer / owner. Change of use that results in the increase in daily flow or wastewater strength will require approval by WAI. Approval from NHDES and Local Land Use Boards may also be required.

SHOULD THE ABOVE PROPERTY BE SOLD, THE ABOVE OWNER SHALL PROVIDE THE NEW OWNER WITH A COPY OF THIS AGREEMENT. THE TERMS AND CONDITIONS OF THIS AGREEMENT WILL TRANSFER TO THE NEW BUYER AND BECOME BINDING ON THE NEW OWNER(S).

This Sales Agreement is subject to the following conditions:

- 1. The buyer has retained a licensed designer and has obtained all necessary approvals from NHDES and Local Land Use Boards.
- 2. The buyer will provide WAI with copies of the plans approved by NHDES.
- 3. The buyer has or will have retained a qualified installer licensed by the State to install Subsurface Disposal Systems prior to system installation.
- 4. This agreement contains a required maintenance schedule. Failure to perform the required maintenance could result in premature failure of the dispersal field and void the warranty of system and system components.

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SYSTEM COMPONENTS PROVIDED BY WAI:

WAI will provide the following system components as shown on the attached design schematic and specifications. These components shall be installed as shown on the design plans by a qualified installer licensed by the State of NH to install Subsurface Disposal Systems.

- 1. A 2,100 gpd 3 compartment (1250/350/500) standard duty concrete tank to function as a septic tank, an aerobic treatment tank and settling tank.
- 2. Plastic access covers and plastic risers to a maximum height of 24". If depth of cover over the top of the tank exceeds 24", the site contractor shall provide additional risers as necessary. Contractor shall ensure that all risers are watertight and that all screws and gaskets are in place and that the cover(s) have been secured. If concrete risers, covers or cast iron covers are used, contractor shall use water plug or an equivalent method to ensure water tightness.

WAI will provide the following system components and labor to install components as shown in the attached design schematic and specifications:

- 1. 30 cf Plastic Media in BioCon™ Chamber
- 2. 1 –SL44 Compressor Owner and WAI will mutually determine placement of the compressor. Compressor needs to be within 50' of the BioCon tank.
- 3. Oxygen transfer system.
- 4. Baffles within BioCon™ Chamber and settling tank.
- 5. Air compressor shelf.

Electrical Requirements to be provided by Owner:

- 1. Owner shall be responsible for hiring a licensed electrician.
- 2. A 120-volt outlet, non-ground fault circuit capable of supplying 1 amp continuously for each compressor and that meets current electrical codes adopted by The State of NH or local Municipality. Location of the outlet(s) shall be within 50' of the BioCon Chamber. (The power required for each compressor is approximately the same as a 100 watt light bulb)

Following not provided by WAI:

- 1. Additional septic tanks.
- 2. Exterior housing unit for the compressor(s).
- 3. Exterior Venting may be required for older homes or systems where effluent is pumped to **THE CLEAN SOLUTION** system.

All system components supplied by WAI are standard duty rated. Heavy Duty tanks and risers shall be required when the depth of fill exceeds 3 feet but is less than 5 feet. H-20 loaded tanks and risers will be required when the depth of fill is 5 feet or greater and/or is subject to vehicular traffic. Contact WAI for updated pricing for Heavy Duty or H-20 loaded components.



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OWNER HAS THE FOLLOWING UNDERSTANDING

THE CLEAN SOLUTION system has been designed based on information provide by the owner(s) or owner(s) designer/engineer. Failure to install the subsurface disposal system according to the approved plan will void system warranty and performance specifications. The owner(s) contractor shall ensure that all risers are watertight and all system components, both upstream and downstream of THE CLEAN SOLUTION system are watertight to prevent infiltration from groundwater and surface runoff. THE CLEAN SOLUTION system has not been designed to handle backwash discharge from Water Softeners or other high water use fixtures such as hot tubs or spa style showers. WAI recommends that backwash discharge or water from high water use fixtures be discharged into an approved drywell. If the septic system requires an effluent pump to be used to discharge effluent to the dispersal field, WAI recommends that the pump be placed in a separate pump tank external of THE CLEAN SOLUTION system on an 8 to 12" high concrete block. The pump chamber shall be inspected on a two-year cycle for sludge buildup and pumped as necessary to prevent sludge from being pumped to the dispersal field. If the effluent pump is placed within THE CLEAN SOLUTION system-settling tank then the pump shall be placed on a concrete block that is 12" high and the settling chamber shall be inspected on a yearly basis for sludge buildup and pumped as necessary to prevent sludge from being pumped to the dispersal field. More frequent inspections and pumping may be required based on system loading and occupant use. WAI requires that a pressure effluent filter be installed on all pumps located with settling chamber.

MAINTENANCE SUGGESTIONS:

There is an ongoing concern with pharmaceuticals, medical treatments, and personal care products and how these products affect septic system functions. Although there is not yet enough data to clearly understand the impacts of these products on septic systems, it is known that without the proper balance of bacteria in the septic tank, waste cannot break down as efficiently. WAI recommends the following:

- 1. The EPA suggests that unused pharmaceuticals, either prescription or over the counter medicines, not be disposed of in the septic system by flushing them down the drain. See if your local pharmacy has a take back program or dispose of them in the trash.
- 2. If a resident of the home is undergoing medical treatment with high strength antibiotics, the system should be inspected on an annual basis to determine the proper maintenance schedule.

PERFORMANCE SPECIFICATIONS:

This system has been designed based on the following estimated residential wastewater influent strength from the primary treatment tank(s) of 140 - 180 mg/l BOD5, 100 - 150 mg/l TSS and <5 mg/l FOG. The system is warranted to discharge treated effluent to the dispersal field, equivalent or better than 30mg/l BOD5, 30mg/l TSS.

RIGHTS TO DATA AND ACCESS TO THE SYSTEM

WAI reserves the right of reasonable access to collect data, modify, maintain and repair **THE CLEAN SOLUTION** and its subsystems. WAI will retain all data collected and the rights to it.

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DELIVERY

WAI will be prepared to install the system approximately 3 weeks after you have chosen an installer and returned a signed copy of this agreement with the initial payment to WAI. It is important that WAI be able to coordinate with the installer. Owner to provide WAI with the installer's contact information.

TRADE SECRETS

THE CLEAN SOLUTION is the result of the expenditure of much effort and money. The design of the components and operational cycle are the intellectual property of WAI and may not be revealed without written permission.

WARRANTY FOR RESIDENTIAL SINGLE FAMILY SYSTEM

For a period of 5 years, WAI will warranty the components within BioCon™ chamber and repair or replace any of these components, including parts and labor by WAI, at no cost to you. This does not cover pumping the system to make necessary repairs or cost for excavation to replace or make repairs or replacement of landscaping features. WAI warranty does not cover failure of the dispersal field(s) (i.e. fabric style leaching component, pipe and stone, chambers)

WAI will extend the compressor manufacturer's warranty from one to two years. This covers compressor(s) that have been maintained and used under normal operating conditions.. Labor to replace compressor(s) will be billed out at WAI standard hourly rates.

Warranty for pump chamber components (pump, floats, alarms) installed by WAI is limited to the pump / floats / alarm manufacturer's terms and conditions. Labor to replace sump / effluent pump / floats / alarms will be billed out at WAI standard hourly rates.

Owner(s) responsibility during this period is to perform the required maintenance and have an inspection contract with WAI or an approved vendor in effect at all times. Failure to perform the required maintenance, have an inspection contract, and maintain records of pumping or to notify WAI of any problems will void this warranty. This warranty also does not cover damage caused by improper use, poor construction or design practices, high groundwater, flooding or acts of God.

THIS LIMITED WARRANTY IS IN LIEU OF AND SUPERCEDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

WASTEWATER ALTERNATIVES INC. SHALL NOT BE LIABLE FOR ANY DIRECT OR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. NOR SHALL WASTEWATER ALTERNATIVES, INC. LIABILITY UNDER THIS WARRANTY EXCEED THE PRICE PAID BY THE BUYER TO WASTEWATER ALTERNATIVES, INC. FOR THE CLEAN SOLUTION SYSTEM.



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<u>PAYMENT</u>

The agreed upon price for the WAI equipment and services detailed in the Sales Agreement is \$ 8,100.00. EFFLUENT PUMP, PUMP COMPONENTS AND ELECTRICAL WORK ARE NOT INCLUDED IN PRICE.

Payment is requested as follows:

\$ 4,050.00 upon signing this agreement

\$ 4,050.00 immediately upon WAI installing system components.

Failure to pay WAI in full will void all warrantees. In the event of failure to pay, Buyer agrees to pay all costs and expenses incurred by WAI, including all reasonable attorney fees, and including all collection charges (including a percentage of the outstanding balance of this Contract) should the account be referred to a collection agency.

The price <u>does not</u> include <u>electrical wiring</u>, <u>excavation</u> or <u>external venting</u> to install the components of this system, dispersal field, or connections from the house to *THE CLEAN SOLUTION* or to the dispersal field.

THIS PRICE IS VALID FOR 60 DAYS FROM THE DATE OF THIS DOCUMENT. ALL SYSTEM COMPONENTS MUST BE INSTALLED WITHIN 60 DAYS OF INITIAL DEPOSIT.

Please send payment to:

Wastewater Alternatives Inc. 2 Whitney Road – Suite 10 Concord. NH 03301 If Paying by Credit Card please call: WAI Accounting Department 603-369-4777

By signing below the owner or owner's representative has read the SALES AGREEMENT and attached INSPECTION CONTRACT requirements and agrees to the terms of the SALES AGREEMENT and to perform the necessary maintenance and inspections as outlined in the INSPECTION CONTRACT.

ACCEPTED BY:

SELLER:

DATE:

Scott & Elizabeth Moylan 249 Portsmouth Avenue Greenland, NH 03840 Phone:

Cell: Email: DATE:

Wastewater Alternatives, Inc.

Gary R. Spaulding General Manager



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RESIDENTIAL INSPECTION AGREEMENT November 18, 2010

OWNER:

Name: Scott & Elizabeth Moylan Address: 249 Portsmouth Avenue City, State Zip: Greenland, NH 03840

Phone: Cell: Email: SITE:

Property ID: Tax Map U8 Lot No. 45 Address: 249 Portsmouth Ave.

City, State, Zip: Greenland, NH

Waterbody: (name)

Property Type:

Residential Single Family: Yes Residential Seasonal: No

MAINTENANCE REQUIRED:

The following maintenance is required. It is the owner's responsibility to see that this maintenance is performed.

Residential Use (Single Family Home)

- 1. If the ISDS (Individual Subsurface Disposal System) is a gravity system *THE CLEAN SOLUTION* system shall be inspection every 2 years by a WAI Technician or by a company or individual that has been certified by WAI to perform inspections.
- 2. If the ISDS is utilizing the settling chamber as a pump chamber WAI recommends that **THE CLEAN SOLUTION** system be inspected yearly by a WAI Technician or by a company or individual that has been certified by WAI to perform inspections.
- 3. A WAI Technician or an approved company or individual that has been certified by WAI to perform inspections' may adjust the above inspection frequency based on use. Seasonal uses will be modified based on use after first inspection.
- 4. Use a local pumper to pump out the septic and settling/pump tanks every 2-years. More or less frequent pumping may be required depending on system use and number of occupants. WAI and the pumper can determine the required frequency. Owner must retain records of pumping.
- 5. Compressor must run continuously. It should be checked for operation at least once a month.
- 6. BioCon™ chamber may require pumping between 6 and 8 years. WAI Technician will determine if pumping is necessary during inspection.
- 7. Compressor Air Filter to be cleaned or replaced yearly.
- 8. Compressor may be disconnected during the off-season for seasonal uses (Less than 6 months)

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WASTEWATER ALTERNATIVES, INC

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Additional Maintenance Suggestions:

There is an ongoing concern with pharmaceuticals, medical treatments, and personal care products and how these products affect septic system functions. Although there is not yet enough data to clearly understand the impacts of these products on septic systems, it is known that without the proper balance of bacteria in the septic tank, waste cannot break down as efficiently.

WAI recommends the following:

- 1. The EPA suggests that unused pharmaceuticals, either prescription or over the counter medicines, not be disposed of in the septic system by flushing them down the drain. See if your local pharmacy has a take back program or dispose of them in the trash.
- 2. If a resident of the home is undergoing medical treatment with high strength antibiotics, the system should be inspected on an annual basis to determine the proper maintenance schedule.

Following the above schedule will fulfill your obligations to maintain your warranty.

The first inspection is included in the sales price if completed within the time periods outlined above. Maintenance Contracts are available from WAI. The service will include a detailed inspection of the system and replacement of any failed items within the BioCon Chamber. Tank pumping is not included in the price and must be arranged by the property owner. Failure to have a maintenance agreement with WAI or an approved vendor will void maintenance warranty outlined in the **Sales Agreement**.

INSPECTION FEE SCHEDULE

Single Family Residential Homes – fee is \$200.00 per inspection plus the cost of replacement parts not covered by warranty.

Inspection fees may be revised by WAI as needed to adjust cost of services.

Inspection fees will be billed and payable at time of service. Failure to perform inspection or pay for inspection will void WAI warranty.

By signing below the owner or owner's representative has read the above Maintenance requirements and conditions outlined in the SALES AGREEMENT and agrees to perform the necessary maintenance and inspections as outlined.

ACCEPTED: BUYER:	
Date:	
OWNER: Scott & Elizabeth Moylan 249 Portsmouth Avenue Greenland, NH 03840 Phone: Cell: Email:	

THE CLEAN SOLUTION™

Concord, NH 03301
Tel. 1-866-900-2415 Fax. 603-369-4747
www.thecleansolution.com 2 Whitney Road - Suite 10



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THEORY of THE CLEAN SOLUTION

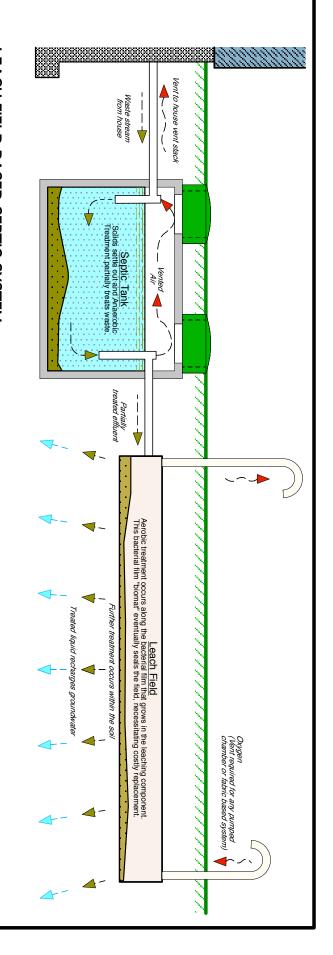
Conventional small to mid-size sewage systems normally use a septic tank followed by a leach field to first provide anaerobic (without air) and then aerobic (with air) treatment of the effluent. Septic tanks work well for capturing and digesting the solids, which are anaerobically fermented over a long period of time, dissolving the solids into the liquid waste. However, a septic tank is not designed to treat the contaminants that dissolve in the liquids. These are treated aerobically in the leach field. Municipal systems, which handle very large volumes of wastewater use different equipment to accomplish the same biological functions: primary sedimentation tanks remove solids, and a subsequent aerobic system treats the contaminants dissolved in the liquids. Settled solids are removed from municipal primary and secondary facilities for further treatment.

All aerobic treatment systems, whether a conventional leach field, municipal treatment plant, or *THE CLEAN SOLUTION*, depend on bacteria to purify the effluent from a solids settling system. In order for bacteria to reproduce they require energy (food) and air. By using the contaminants in the effluent as food and atmospheric air the bacteria metabolize the dissolved solids to carbon dioxide, water and sludge (colonies of bacteria). The aerobic bacteria also convert ammonia compounds to nitrates.

A large number of bacteria need to come in contact with the food source in order to purify an effluent. Treatment systems utilize different methods to provide the necessary bacteria population. A municipal system mechanically stirs up the bacteria in the secondary treatment process so that they will contact their food and not settle out of the effluent. In a leach field, the sludge (biomat) that forms at the ground interface is a large colony of bacteria through which the dissolved solid stream flows. In *THE CLEAN SOLUTION* the bacteria collect in a thin film on the plastic media in WAI'S proprietary BioCon biological contactor, the effluent is circulating over the plastic media several times.

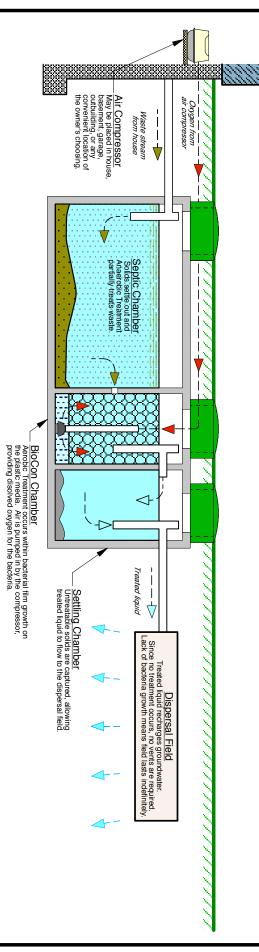
THE CLEAN SOLUTION uses the same biological process as a municipal secondary treatment plant utilizing the activated sludge process. Solids are settled out and air is added for bacteria respiration in the BioCon. This allows the bacteria to convert the carbonaceous dissolved solids to carbon dioxide, water and sludge. In addition the urea and ammonia converts to nitrates and sludge. The sludge created is settled for periodic removal from the system, and a clean, odorless effluent is discharged to the dispersal field.

The major difference between a conventional septic system and *THE CLEAN SOLUTION* is where the bacteria (sludge) collect. In a conventional system, the sludge forms in the bottom of the leach field and restricts the effluent flow enough so that the bacteria has time to act. This flow rate through the sludge determines the required field size. In *THE CLEAN SOLUTION* system the sludge is formed in the BioCon chamber resulting in treated; clear effluent discharging to the dispersal field. This field can be greatly reduced in size because there is no for further treatment to reduce BOD and TSS.



LEACH FIELD BASED SEPTIC SYSTEM

Treatment occurs within the leach field components, whether fabric wrapped pipes or mats, concrete or plastic chambers or traditional pipe & stone.



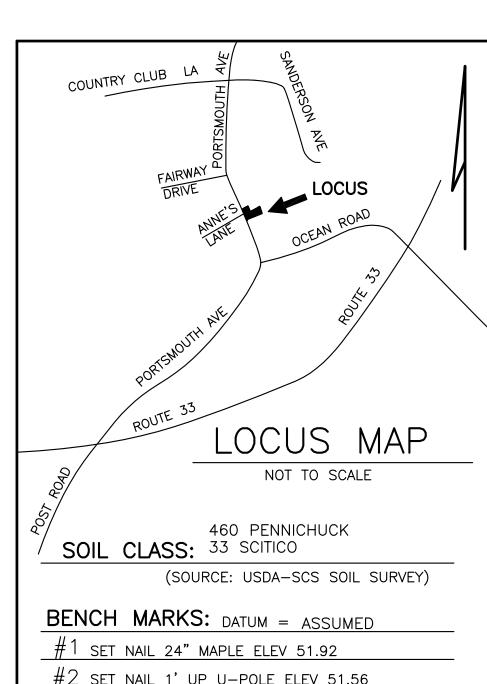
THE CLEAN SOLUTION™ ALTERNATIVE SEPTIC SYSTEM

Treatment occurs within the BioCon™ Aerobic treatment chamber, allowing for a dispersal area smaller than a leach field.



THE CLEAN SOLUTION THE CLEAN SOL

11 Hethlon Road
Canterbury, NH 03224
Tel: 1-866-900-2415 Fax. 603-783-4499
www.thecleansolution.com



#2 SET NAIL 1' UP U-POLE ELEV 51.56

#3 SET NAIL ROOT EL 48.17

DESIGN INTENT:

1. THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM SHALL BE CONSTRUCTED AT ELEVATION 51.0 2. THERE IS/ARE APPROX 2.5' FT BELOW ORIGINAL GROUND ON THE HIGH CONTOUR THE DESIGNED EDS.

SUITABLE REPLACEMENT AREA:

SYSTEM MUST BE REBUILT IN PLACE OR REDESIGNED. LEGEND:

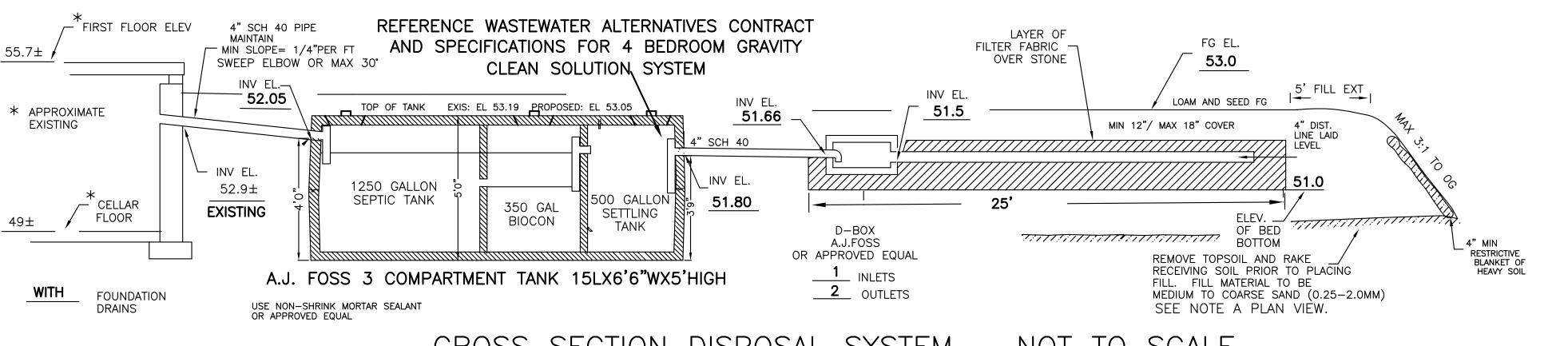
EXISTING CONTOUR · - (5₀)_ / PROPOSED CONTOUR 50.0 EXISTING SPOT ELEVATION (50.0 PROPOSED SPOT ELEVATION

NOTES:

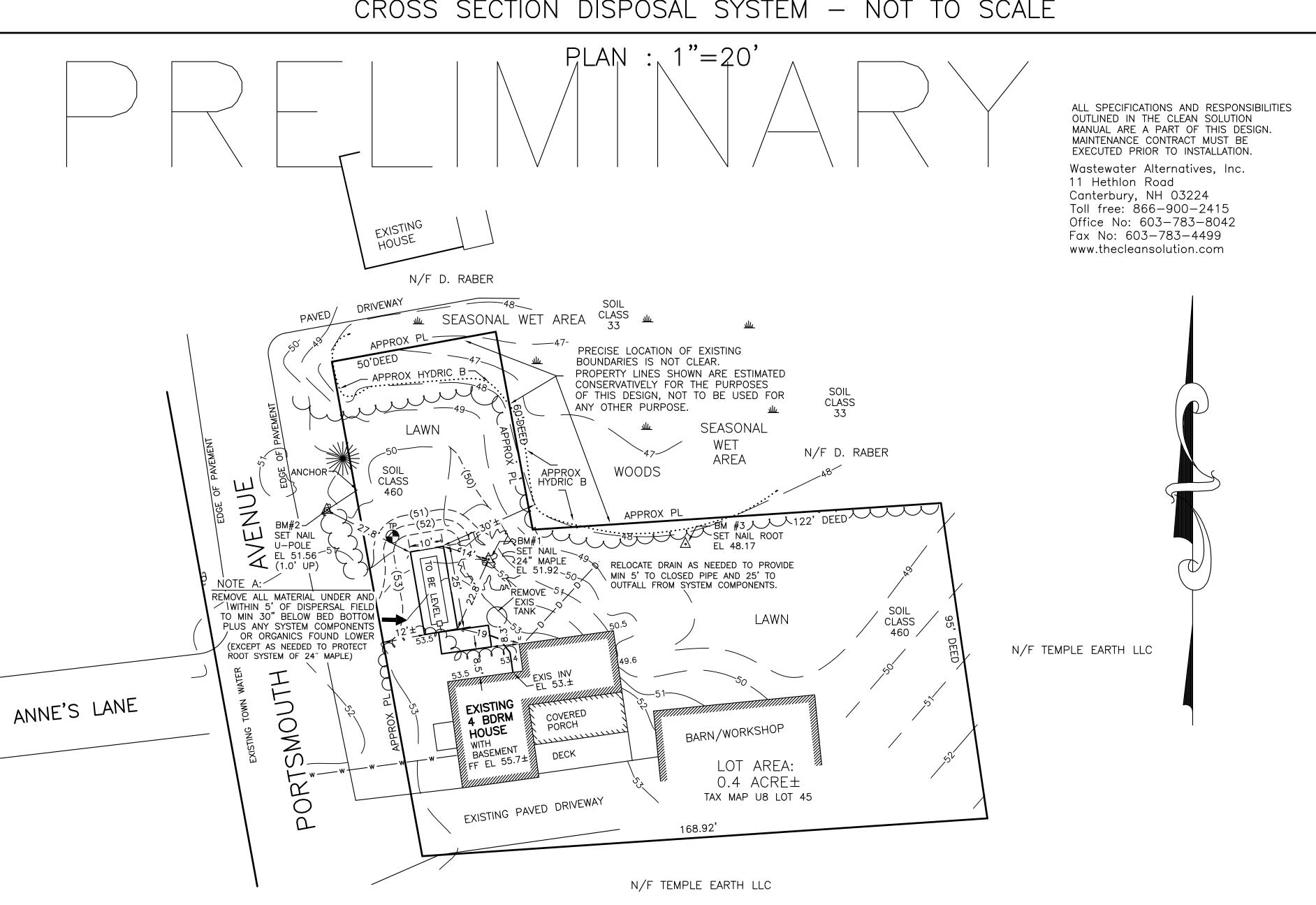
1. THIS PLAN IS NOT TO BE CONSTRUED AS A BOUNDARY SURVEY. PROPERTY LINES SHOWN ARE APPROXIMATED BASED ON INFORMATION FROM THE FOLLOWING SOURCE:

DEED BOOK 3382 PAGE 1086

- 2. NHDES-WS&PCD SUBDIVISION APPROVAL NUMBER: N/A LOT OF RECORD PRE 1967
- 3. THIS SYSTEM IS NOT DESIGNED TO HANDLE GARBAGE DISPOSAL, JACUZZI BATH, OR SEWAGE EJECTOR PUMP WASTE. BACKWASH FROM WATER SOFTENER SYSTEMS SHOULD BE DISCHARGED TO A SEPARATE DRYWELL.
- 4. NO HYDRIC A WITHIN 75' OF SYSTEM NO WELL WITHIN 100' OF SYSTEM. WAIVER REQUIRED TO ALLOW HYDRIC B, SEASONAL WET WITHIN 30' OF SYSTEM.
- 5 DESIGNER MUST BE CONSULTED FOR ANY PROPOSED CHANGES OR ERRORS/DISCREPANCIES FOUND DURING SYSTEM INSTALLATION. (603 929-7404) INSTALLER IS RESPONSIBLE FOR ANY TOWN PERMITS OR INSPECTIONS REQUIRED FOR THIS INSTALLATION.



UNIFORM // 4" PERFORATED PIPE _ LAID LEVEL WITH TIGHT COLLARS CONNECTED AT ENDS. 10' TOTAL WIDTH CROSS SECTION DISPOSAL SYSTEM - NOT TO SCALE



TEST PIT DATA

LOAM AND SEED FG

MIN 12"/ MAX 18" COVER

AUGUST 20, 2010

BOB CUSHMAN

TEST PIT #1 ELEVATION 50.5

0 -10" 10YR3/4 FINE SANDY LOAM & ROOT MAT 10-32" 10YR4/4-4/6 FINE SANDY LOAM (OLD FILL) GRANULAR FRIABLE

5' FILL EXT

32-33" ORIGINAL TÓPSOIL

33-52" 2.5Y4/3 SILTY FINE SANDY LOAM, MASSIVE, FRIABLE

52-60" 2.5Y5/3-5/4 SILT LOAM, MASSIVE PLASTIC 60-76" 2.5Y4/2 SILT LOAM, NEARLY IMPERVIOUS

ESHWT @ 33", NO OBSERVED WATER, NO REFUSAL, OLD ROOTS TO 5'+

PERC TEST DATA

PERC RATE: N/A CLEAN SOLUTION SYSTEM

EXISTING 4 BEDROOM HOUSE DESIGN LOADING:

MIN 100 SF WAI MANUAL

AREA REQUIRED:

 $10' \times 25' = 250 \text{ SF PROVIDED}$ AREA PROPOSED:

PROPOSED REPLACEMENT SEPTIC SYSTEM PLAN

FOR FAILED EXISTING SYSTEM

249 PORTSMOUTH AVENUE

TAX MAP U8 LOT 45

GREENLAND, NH

SCOTT & ELIZABETH MOYLAN OWNER:

249 PORTSMOUTH AVENUE

GREENLAND, NH 03840

APPLICANT:

STOCKTON SERVICES PO BOX 1306 HAMPTON, NH 03843-1306 603 929-7404

NOV 9, 2010

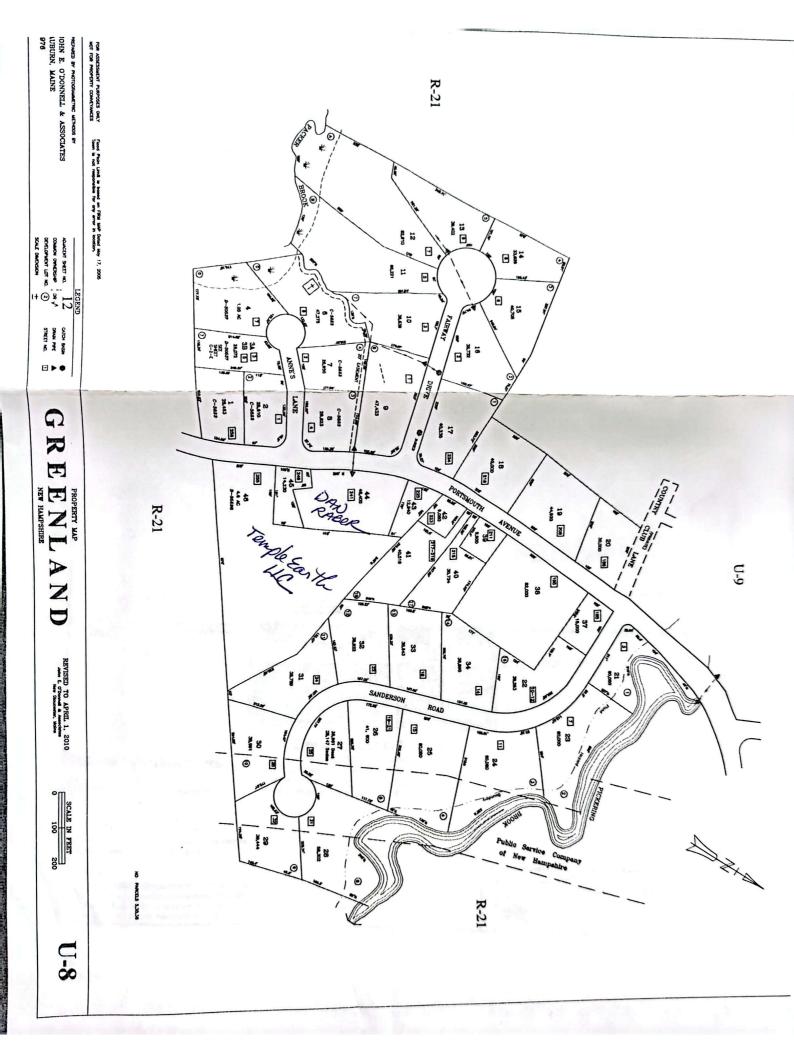
APPROVAL:

605

SYSTEM OWNER IS RESPONSIBLE FOR THE FOLLOWING OPERATING REQUIREMENTS MAINTENANCE CONTRACT SUBMITTED WITH APPLICATION FOR SYSTEM APPROVAL. ENV-WS 1023.01 (a) SEPTIC TANKS SHALL BE INSPECTED FOR ACCUMULATION OF SLUDGE AND SURFACE SCUM AT LEAST ONCE EVERY YEAR.

(b) WHEN THE COMBINED THICKNESS OF SLUDGE AND SURFACE SCUM EQUAL 1/3 OR MORE OF THE TANK DEPTH, THE TANK SHALL BE PUMPED BY A LICENSED SEPTIC TANK PUMPER. ENV-WS 1023.02 TO PREVENT OBSTRUCTION OF THE DISTRIBUTION LINES AND LEACH FIELD, GREASE AND BULKY WASTE SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM.

ENV-WS 1023.03 TOXIC AND HAZARDOUS MATERIALS SHALL NOT BE FLUSHED OR OTHERWISE INTRODUCED INTO THE SEPTIC SYSTEM. ENV-WS 1023.04 TO PREVENT DAMAGE TO THE DISTRIBUTION LINES AND LEACH FIELD, VEHICLES, LIVESTOCK, AND OTHER HEAVY OBJECTS SHALL NOT BE ALLOWED ON THE LEACH FIELD. ENV-WS 1023.05 IF WET AREAS APPEAR ON THE GROUND SURFACE ABOVE THE DISTRIBUTION LINES OR LEACH FIELD OR IF DISAGREEABLE ODORS OCCUR,
THE SYSTEM SHALL BE INSPECTED FOR THE SOURCE OF THESE PROBLEMS, AND CORRECTIVE ACTION SHALL BE TAKEN.



Printed from Internet for on 8/12/2010

BK3382PG1087

991690 249 Portsmouth Avenue Greenland, New Hampshire 03840 Scott P. Moylan and Elizabeth P. Mann

3 LON FUD?

EXHIBIT A

A certain tract or parcel of land with the buildings and improvements thereon, situate in Greenland, County of Rockingham and State of New Hampshire, bounded and described as follows;

Beginning on the east side of the road leading from Greenland Parade to Portsmouth, known as State Route No. 101, at the northwest corner of land now or formerly of William F. Parrott; thence northerly by said road to land now or formerly of Mahitable Cate; thence easterly by land of said Cate, fifty (50) feet, more or less, to land of said Parrott; thence southerly by land of said Parrott about sixty (60) feet; thence easterly by land of said Parrott about one hundred twenty-two (122) feet; thence southerly by land of said Parrott about ninety-five (95) feet; thence westerly by said Parrott land about one hundred sixty-one (161) feet to the point of beginning.

For mortgagors title see Deed dated October 29, 1982 and recorded in Book 2425, Page 1256

SIL SMORE BUNDEN 1062-089
1946 A CONCOLO DE LA COLO DELLA COLO DE LA COLO DE LA COLO DE LA COLO DELLA COLO DE LA COLO DELLA COLO DE LA COLO DELLA COLO DE LA COLO DELLA C

Beginning on the main road at land formerly of Manual Silver, now of one Cohen, and running Southeasterly by said Silver land one hundred eighty-two (182) feet to other land of said Archibald; thence turning and running Southerly by said Archibald land three hundred sixteen (316) feet to land of Joseph Berry; thence turning and running Westerly by said Berry land one hundred sixteen (116) feet; thence turning and running Northerly by said Berry land seventy-two (72) feet; thence turning and running again Westerly by said Berry land fifty-eight (58) feet to said main road; thence turning and running Northerly by said main road three hundred fifty-eight (358) feet to the beginning.

Excepting a certain parcel of land conveyed by me to Ernest Davis by deed recorded in Rockingham County Registry of Deeds, Book 1114, Page 388.

() S TRACE

and described as follows:

Tocky B.

From:

"Tocky B." <stockton@ttlc.net>

To: Sent: <smo6254@comcast.net>

Wednesday, June 15, 2011 12:40 PM

Subject:

Re: Septic Design

Scott will remember our discussions about failed system vs regular submittal..... A regular approval is good for four years but to get the relief we need from state and town regs, it must be submitted as a failed system which has an approval life of 90 days, with a possible 90 day extension of that for good cause.

Thanks very much for the check... and your understanding. I will put your file away and we will regroup when you are ready.

I'm surprised you didn't hear from Chris.... I reminded him and he said he would get right on it.....quite a while back as I recall....

Thanks again,

Tocky

- Original Message -

From: smo6254@comcast.net

To: Tocky B.

Sent: Wednesday, June 15, 2011 11:57 AM

Subject: Re: Septic Design

Hi Tocky.

Yes it seems that it will not happen this year. We have not heard from Chris and we were waiting on his estimates. So lets hope for next year. I am sending a check for 300 out today. Do you know how long this design will be good for? Sorry for the limbo-Thank you for your patience.

Betty

-- Original Message --

From: "Tocky B." <stockton@ttlc.net>

To: smo6254@comcast.net

Sent: Friday, June 3, 2011 12:47:43 PM

Subject: Re: Septic Design

Betty and Scott,

Hello again..... this is kind of dragging on more than expected......the rule changes have been

If nothing is going to happen this year, I would feel a lot better if you could send me another \$300....it would get us closer to settling up for actual work to date..... and I could take you off my limbo list.

Hope all is well and that you find this to be a fair request.

Thanks,

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From: smo6254@comcast.net

To: Tocky B.

Sent: Thursday, March 17, 2011 4:40 PM

Subject: Re: Septic Design

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Thanks again, Betty and Scott

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From: "Tocky B." <stockton@ttlc.net>

To: smo6254@comcast.net

Sent: Thursday, March 10, 2011 10:58:04 AM

Subject: Septic Design

Hello Moylans,

I just want to let you know there are rule changes in the works at the state level.... I don't *think* they would affect our design but once they are in force, I will need to review them to be sure we are still OK with the proposal we have. That could add \$100 or so to what I originally told you when the time comes to submit.

If you are having any trouble with your system and think you might be wanting to do something in the coming year, maybe we should think about sending the plans in now before the rule change goes into effect.

Just a thought..... let me know how you are doing.... thanks,
Tocky

Anne W. Bialobrzeski
NHLLS #752
NHDES Septic Designer #348
Stockton Services
PO Box 1306
Hampton, NH 03843-1306
603 929-7404
cell 603 765-8918

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